

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended) A system comprising elements for the control from a remote location of at least one discrete measurable operational parameter of a molding fluid or fiber in a manufacturing process for manufacturing composite articles at two or more manufacturing locations comprising:

a. at least one sensor measuring said operational parameter of the manufacturing process for a composite comprising a resin and a reinforcement;

b. a signal generator connected to each of said at least one sensor for producing a digital signal;

c. a programmable logic controller connected to the signal generator, the programmable logic controller programmed to operate a sequence of controls that keep the manufacturing process running through a predetermined sequence of events;

d. a transmitter for transmitting said digital signal to said remote location;

e. a process controller provided at said remote location for processing said transmitted digital signal;

f. process control software associated with said process controller wherein said process control software self-adjusts said operational parameter for said at least one sensor; and

g. a transmitter for sending operational instructions from said remote location to said manufacturing locations wherein the remote site has the ability to change programming of the programmable logic controller ~~process controller~~ on a real time basis.

2. (Original) The system of claim 1 wherein said parameter of the manufacturing process comprises a pressure within the manufacturing process.
3. (Original) The system of claim 1 wherein said parameter of the manufacturing process comprises the pressure of a flowable resin within the manufacturing process.
4. (Original) The system of claim 1 wherein said parameter of the manufacturing process comprises a flow rate within the manufacturing process.
5. (Original) The system of claim 1 wherein said parameter of the manufacturing process comprises the flow rate of a flowable resin within the manufacturing process.
6. (Original) The system of claim 1 wherein said parameter of the manufacturing process comprises a temperature within the manufacturing process.
7. (Original) The system of claim 1 wherein said parameter of the manufacturing process comprises the temperature of a mold within the manufacturing process.
8. (Original) The system of claim 1 wherein said parameter of the manufacturing process comprises the temperature of a flowable thermoplastic resin within the manufacturing process.
9. (Original) The system of claim 1 wherein said parameter of the manufacturing process comprises a cycle time or a cure time within the manufacturing process.
10. (Currently amended) A system comprising elements for the control from a remote location of at least one discrete measurable operational parameter of a molding fluid or fiber in a manufacturing process for manufacturing a fiber reinforced thermoset product at two or more manufacturing locations comprising:
 - a. at least one sensor measuring said operational parameter of the manufacturing process for a composite comprising a thermoset resin and a reinforcement;
 - b. a signal generator connected to each of said at least one sensor for producing a digital signal;

c. a programmable logic controller connected to the signal generator, the programmable logic controller programmed to operate a sequence of controls that keep the manufacturing process running through a predetermined sequence of events;

d [[e]]. a transmitter for transmitting said digital signal to said remote location;

e [[d]]. a process controller provided at said remote location for processing said transmitted digit signal;

f [[e]]. process control software associated with said process controller wherein said process control software self-adjusts said operational parameter for said at least one sensor; and

g [[f]]. a transmitter for sending operational instructions from said remote location to said manufacturing locations wherein the remote site has the ability to change programming of the programmable logic controller ~~process-controller~~ on a real time basis.

11. (Original) The system of claim 10 wherein said parameter of the manufacturing process comprises a pressure within the manufacturing process.

12. (Original) The system of claim 10 wherein said parameter of the manufacturing process comprises the pressure of a flowable resin within the manufacturing process.

13. (Original) The system of claim 10 wherein said parameter of the manufacturing process comprises a flow rate within the manufacturing process.

14. (Original) The system of claim 10 wherein said parameter of the manufacturing process comprises the flow rate of a flowable resin within the manufacturing process.

15. (Original) The system of claim 10 wherein said parameter of the manufacturing process comprises a temperature within the manufacturing process.

16. (Original) The system of claim 10 wherein said parameter of the manufacturing process comprises the temperature of a mold within the manufacturing process.

17. (Original) The system of claim 10 wherein said parameter of the manufacturing process comprises the temperature of a flowable resin within the manufacturing process.

18. (Original) The system of claim 10 wherein said parameter of the manufacturing process comprises a cure time within the manufacturing process.

19. (Currently amended) A system comprising elements for the control from a remote location of at least one discrete measurable operational parameter of a molding fluid or fiber in a manufacturing process for reheating thermoplastic at two or more manufacturing locations comprising:

a. at least one sensor measuring said operational parameter of the manufacturing process for a composite comprising a thermoplastic resin and a reinforcement;

b. a signal generator connected to each of said at least one sensor for producing a digital signal;

c. a programmable logic controller connected to the signal generator, the programmable logic controller programmed to operate a sequence of controls that keep the manufacturing process running through a predetermined sequence of events;

d. ~~[[e]]~~ a transmitter for transmitting said digital signal to said remote location;

e. ~~[[d]]~~. a process controller provided at said remote location for processing said transmitted digital signal;

f. ~~[[e]]~~. process control software associated with said process controller wherein said process control software self-adjusts said operational parameter for said at least one sensor; and

g. ~~[[f]]~~. a transmitter for sending operational instructions from said remote location to said manufacturing locations wherein the remote site has the ability to change programming of the programmable logic controller ~~process controller~~ on a real time basis.

20. (Original) The system of claim 19 wherein said parameter of the manufacturing process comprises a pressure within the manufacturing process.
21. (Original) The system of claim 19 wherein said parameter of the manufacturing process comprises the pressure of a flowable resin within the manufacturing process.
22. (Original) The system of claim 19 wherein said parameter of the manufacturing process comprises a flow rate within the manufacturing process.
23. (Original) The system of claim 19 wherein said parameter of the manufacturing process comprises the flow rate of a flowable resin within the manufacturing process.
24. (Original) The system of claim 19 wherein said parameter of the manufacturing process comprises a temperature within the manufacturing process.
25. (Original) The system of claim 19 wherein said parameter of the manufacturing process comprises the temperature of a mold within the manufacturing process.
26. (Original) The system of claim 19 wherein said parameter of the manufacturing process comprises the temperature of a flowable resin within the manufacturing process.
27. (Original) The system of claim 19 wherein said parameter of the manufacturing process comprises a cycle time within the manufacturing process.
28. (Previously presented) A system for the control from a remote location of at least one discrete measurable operational parameter of a manufacturing process for manufacturing composite articles at two or more manufacturing locations according to claim 1 wherein the two or more manufacturing locations are at the same site.
29. (Previously presented) A system for the control from a remote location of at least one discrete measurable operational parameter of a manufacturing process for manufacturing composite articles at two or more manufacturing locations according to claim 1 wherein the two or more manufacturing locations are at geographically separate sites.

30. (Previously presented) A system for the control from a remote location of at least one discrete measurable operational parameter of a manufacturing process for manufacturing a fiber reinforced thermoset product at two or more manufacturing locations according to claim 10 wherein the two or more manufacturing locations are at the same site.

31. (Previously presented) A system for the control from a remote location of at least one discrete measurable operational parameter of a manufacturing process for manufacturing a fiber reinforced thermoset product at two or more manufacturing locations according to claim 10 wherein the two or more manufacturing locations are at geographically separate sites.

32. (Previously presented) A system for the control from a remote location of at least one discrete measurable operational parameter of a manufacturing process for reheating thermoplastic at two or more manufacturing locations according to claim 19 wherein the two or more manufacturing locations are at the same site.

33. (Previously presented) A system for the control from a remote location of at least one discrete measurable operational parameter of a manufacturing process for reheating thermoplastic at two or more manufacturing locations according to claim 19 wherein the two or more manufacturing locations are at geographically separate sites.